

ST. ELIZABETHS WEST CAMPUS  
US DEPARTMENT OF HOMELAND SECURITY  
RESILIENCE PLAZA

# Commission of Fine Arts Concept Review

ZGF Architects | OLIN

March 2023

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GS11P08MKC0080

# ZGF | OLIN

Gordon Heller & Metzger, PC

 Silman

VANDERWEIL

  
VERMEULENS  
Service Beyond Estimation

# Team Introductions

ZGF

OLIN



OTTO  
CONDON

Principal



PAUL  
KEMPTON

Associate Architect  
Project Manager



ZHERTI  
JASA

Architectural  
Designer



HALLIE  
BOYCE

Partner



EVE  
KOOTCHICK

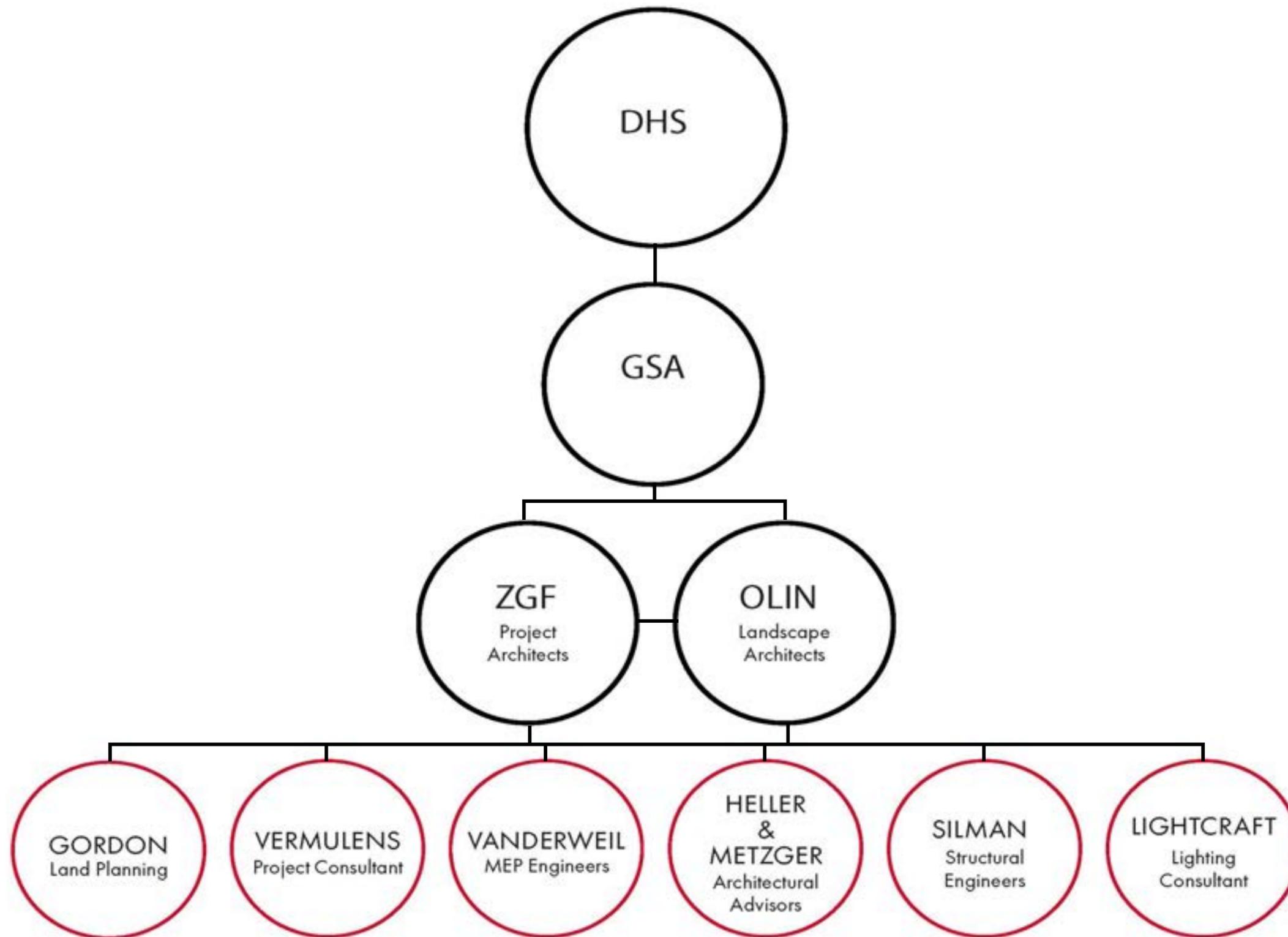
Associate

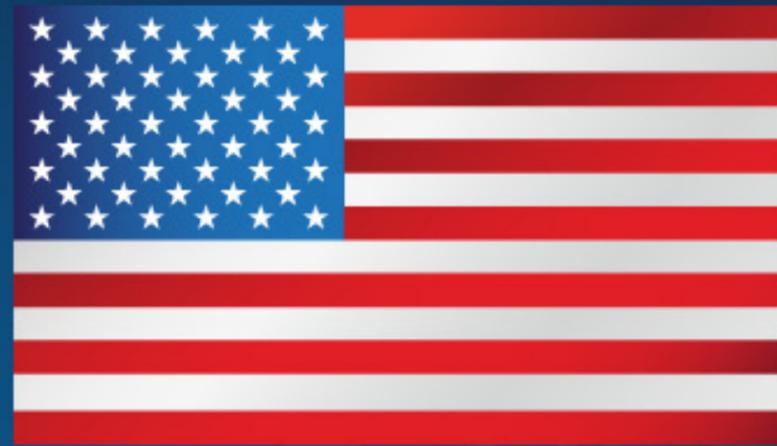


JONATHAN  
HALLER

Landscape  
Architect

# The Team



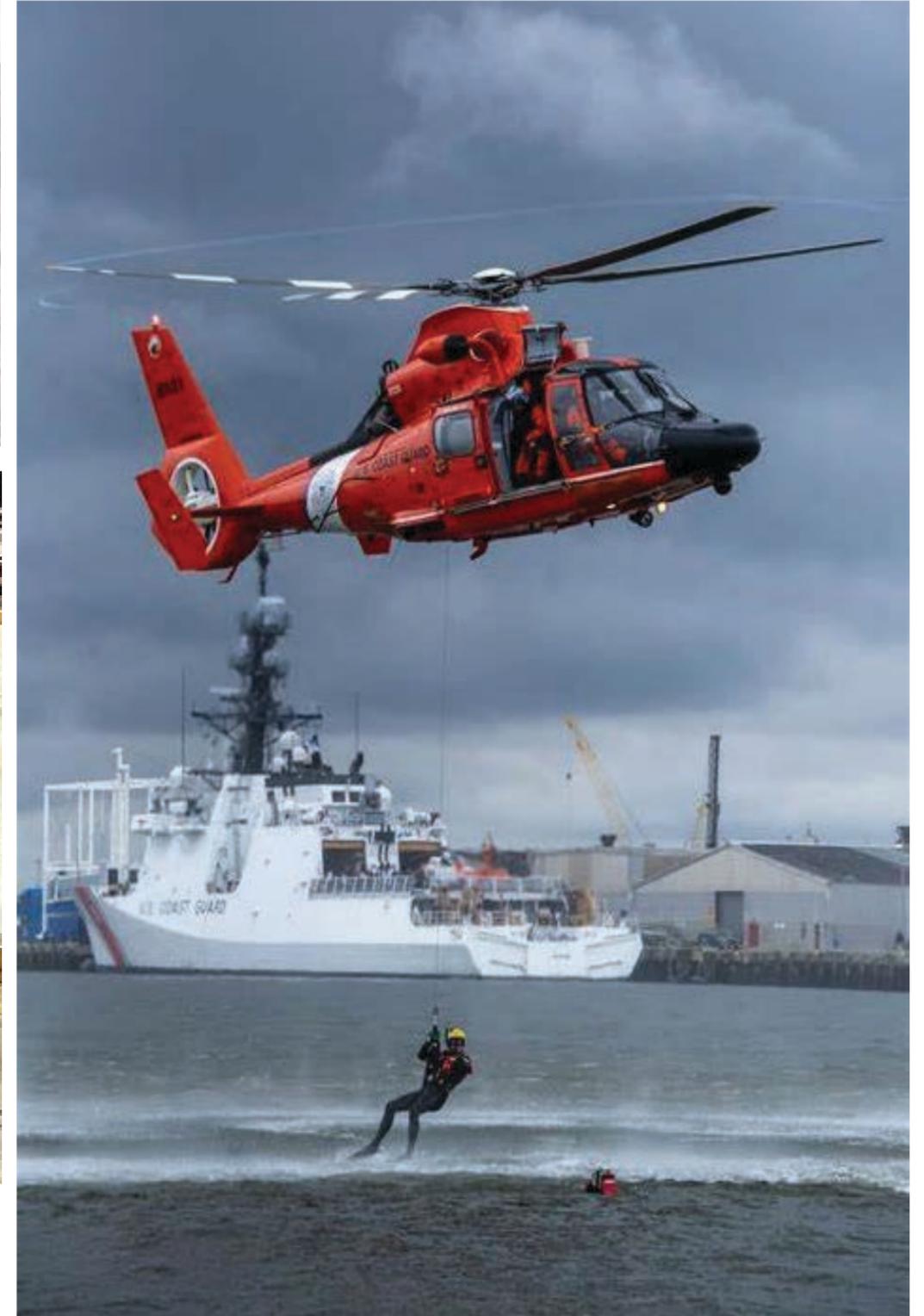


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*With honor and integrity, we will  
safeguard the American people, our  
homeland, and our values.*



# DHS Mission



# Resilience Plaza



# Resilience Plaza



# Artifacts from New York and Pentagon



# Displays at other DHS facilities in the NCR



CBP Ashburn



TSA, Arlington, VA

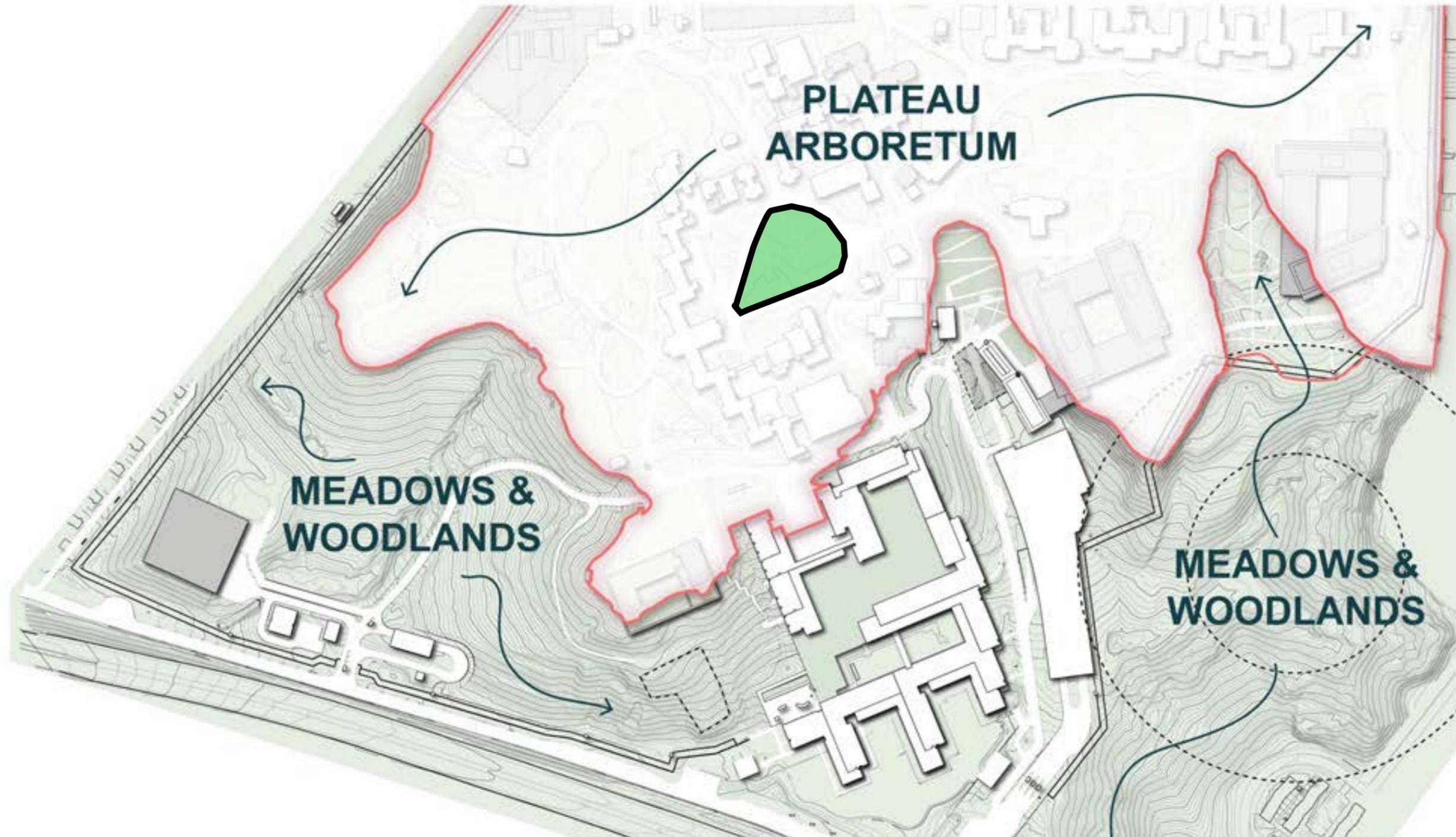


# CONTEXT

# Regional Context



# Campus Context



# Central Location



# Hemlock Street SE Site



## Key Characteristics

- A. Prominent site adjacent to South entrance of Center Building
- B. Existing trees provide an appealing backdrop and setting for siting and displaying the artifacts
- C. Surrounded by major pedestrian and vehicular circulation routes through campus



# EXISTING CONDITIONS

# Existing Conditions - Opportunities



Maintain view of the Center Building as requested by DHS



Preserve mature shade trees



Provide areas for seating for groups and individuals



Maintain long views across the park

# Existing Conditions - Challenges



Shuttle bus circulation around the site



Parking along east and west perimeter of the site

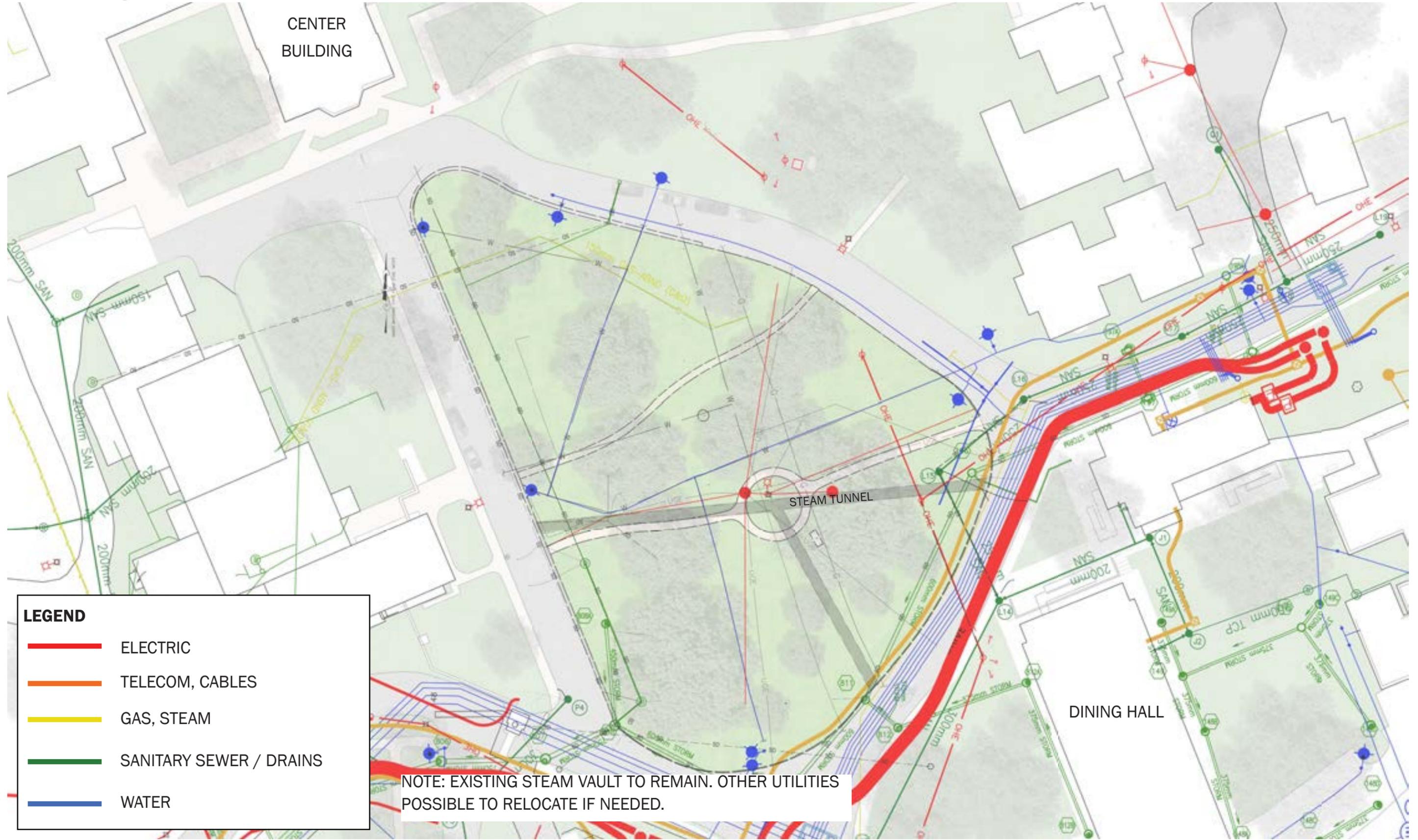


Existing steam vault and tunnel to be maintained



Paving in need of replacement

# Existing Site Utilities



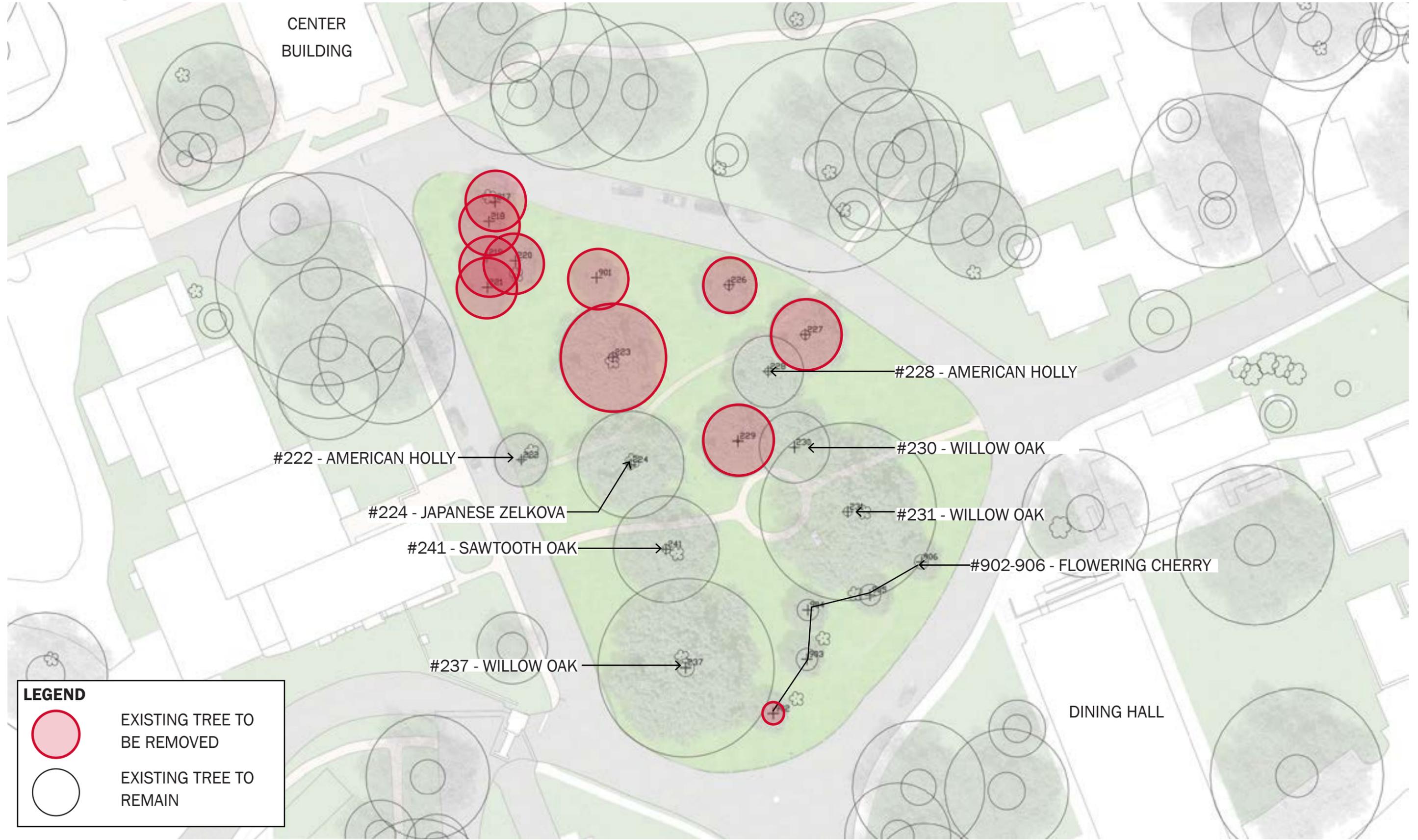
**LEGEND**

- ELECTRIC
- TELECOM, CABLES
- GAS, STEAM
- SANITARY SEWER / DRAINS
- WATER

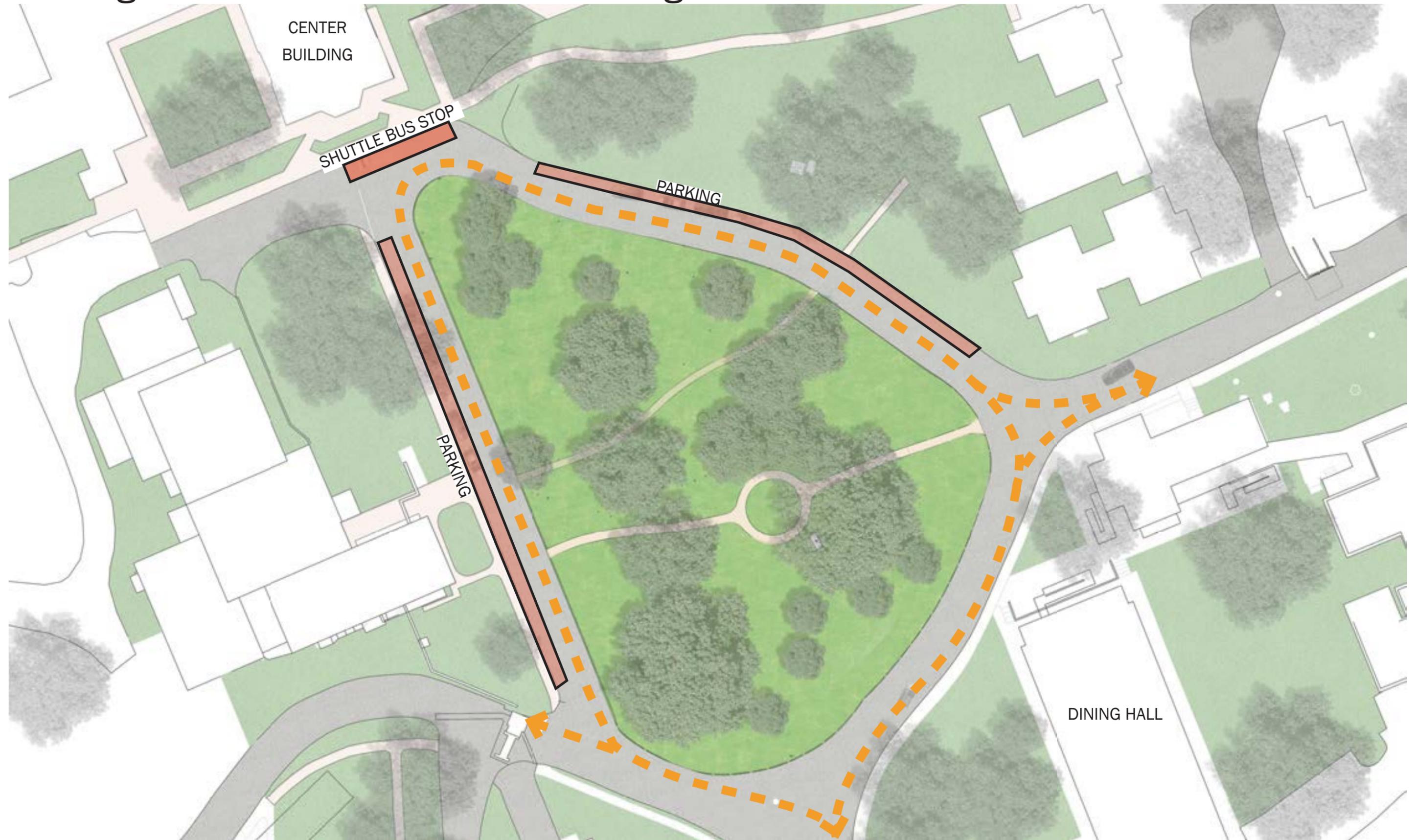
NOTE: EXISTING STEAM VAULT TO REMAIN. OTHER UTILITIES POSSIBLE TO RELOCATE IF NEEDED.



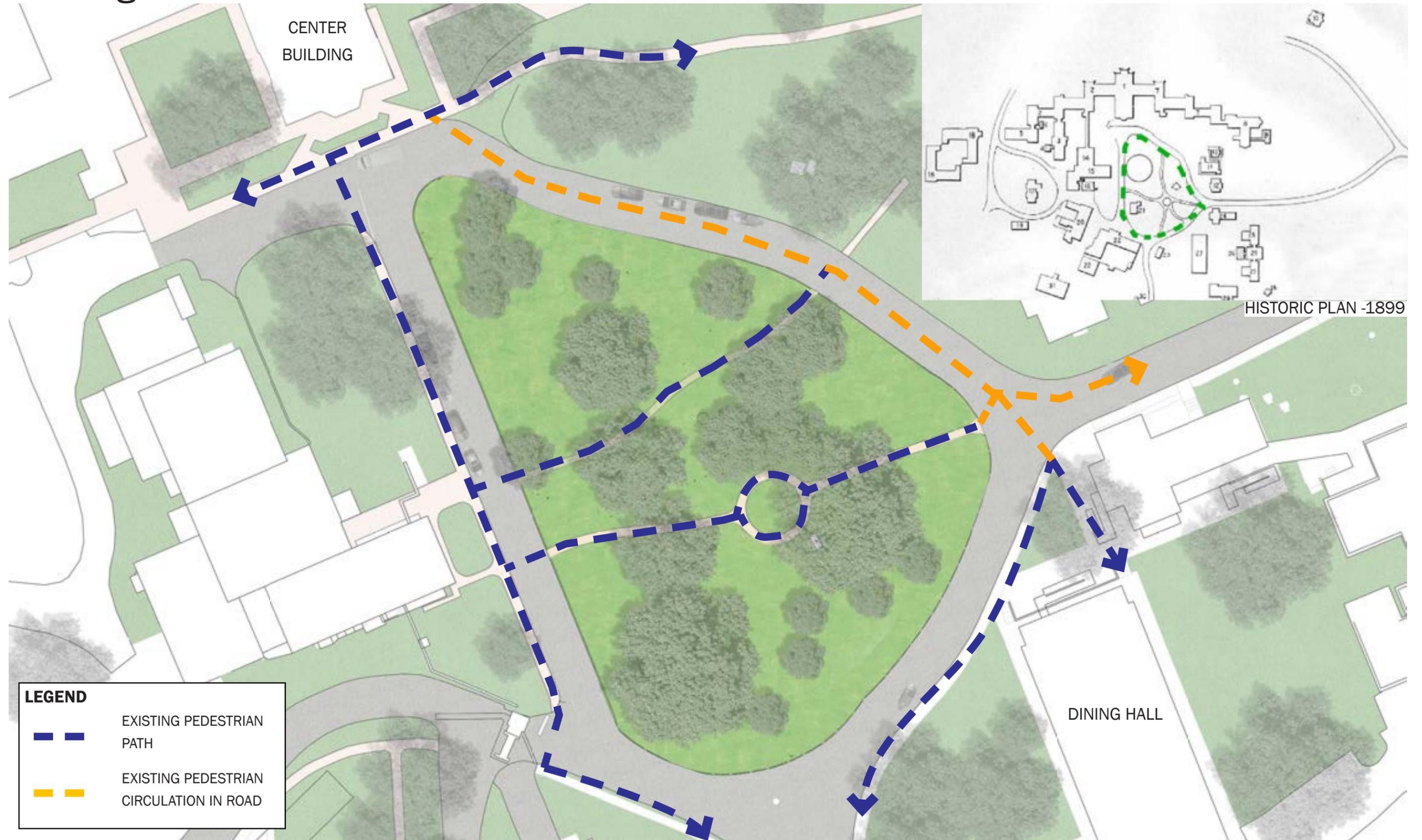
# Existing Trees



# Existing Vehicular Circulation and Parking

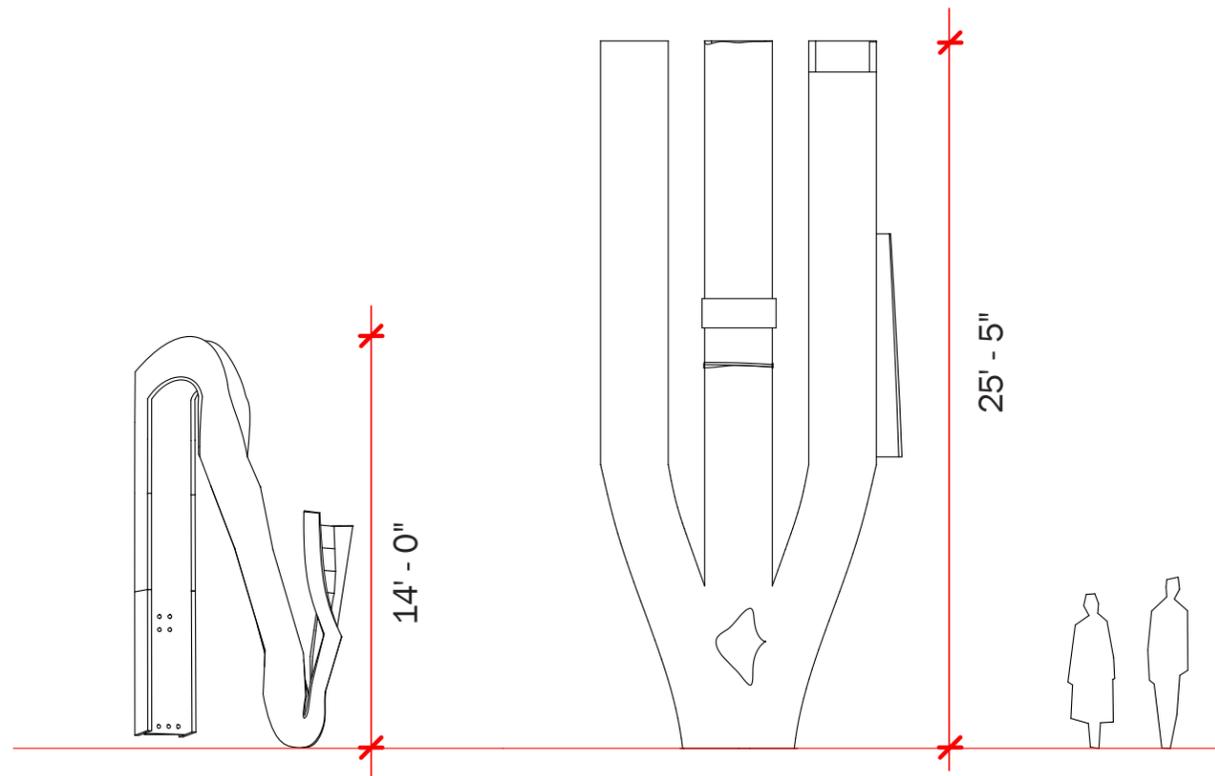


# Existing Pedestrian Circulation



# PROPOSED CONCEPT

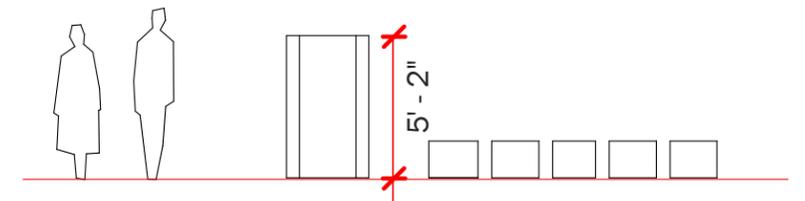
# Artifacts and Survivor Tree



STEEL ARTIFACTS FROM THE WORLD TRADE CENTER SITE



SURVIVOR TREE FROM THE NYC 9/11 MEMORIAL



STONES FROM THE FACADE OF THE PENTAGON SITE

# Landscape Concept



# Landscape Concept



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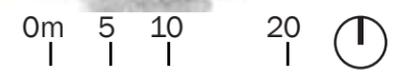


# Proposed Site Plan

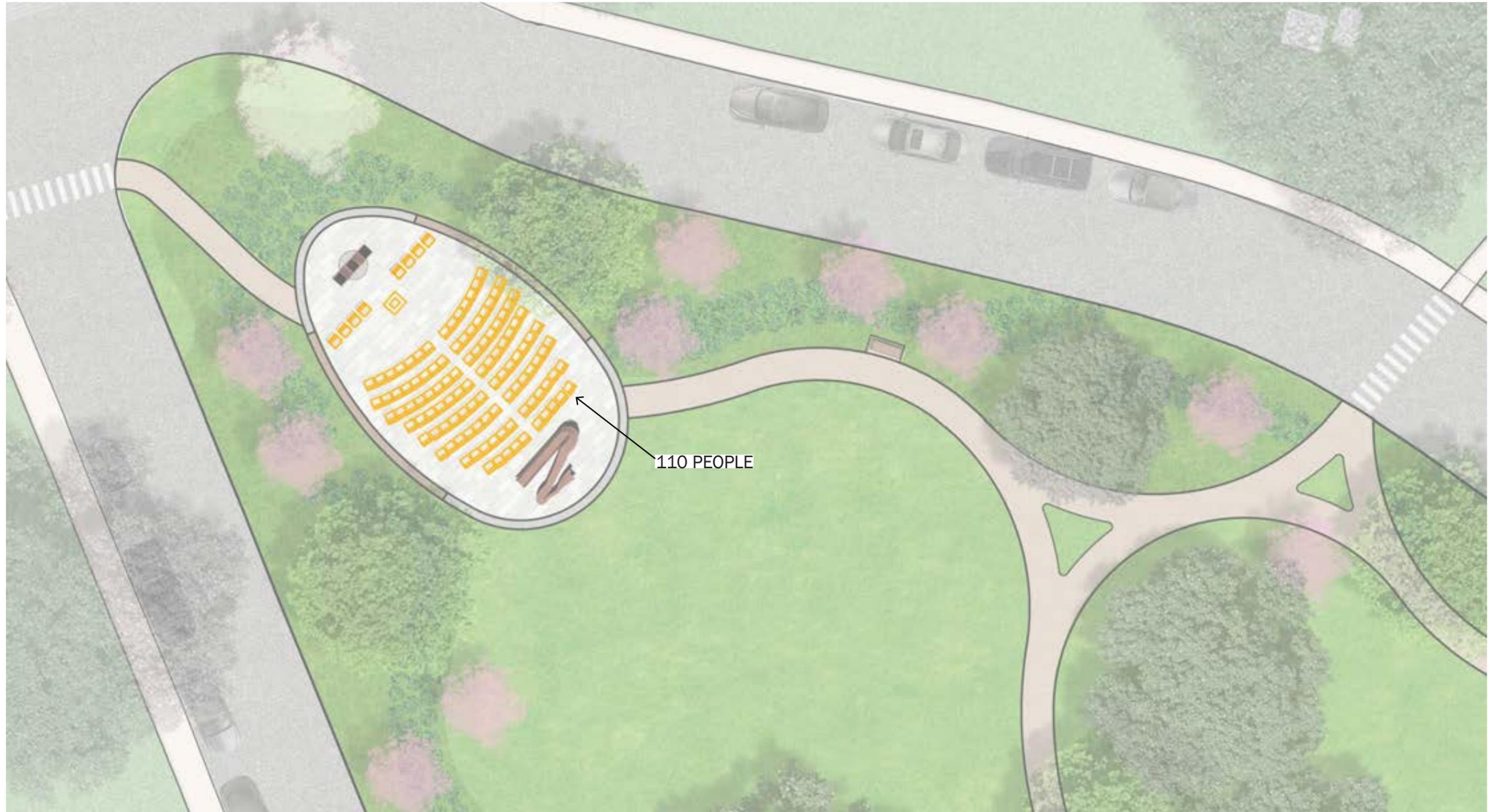


CENTER  
BUILDING

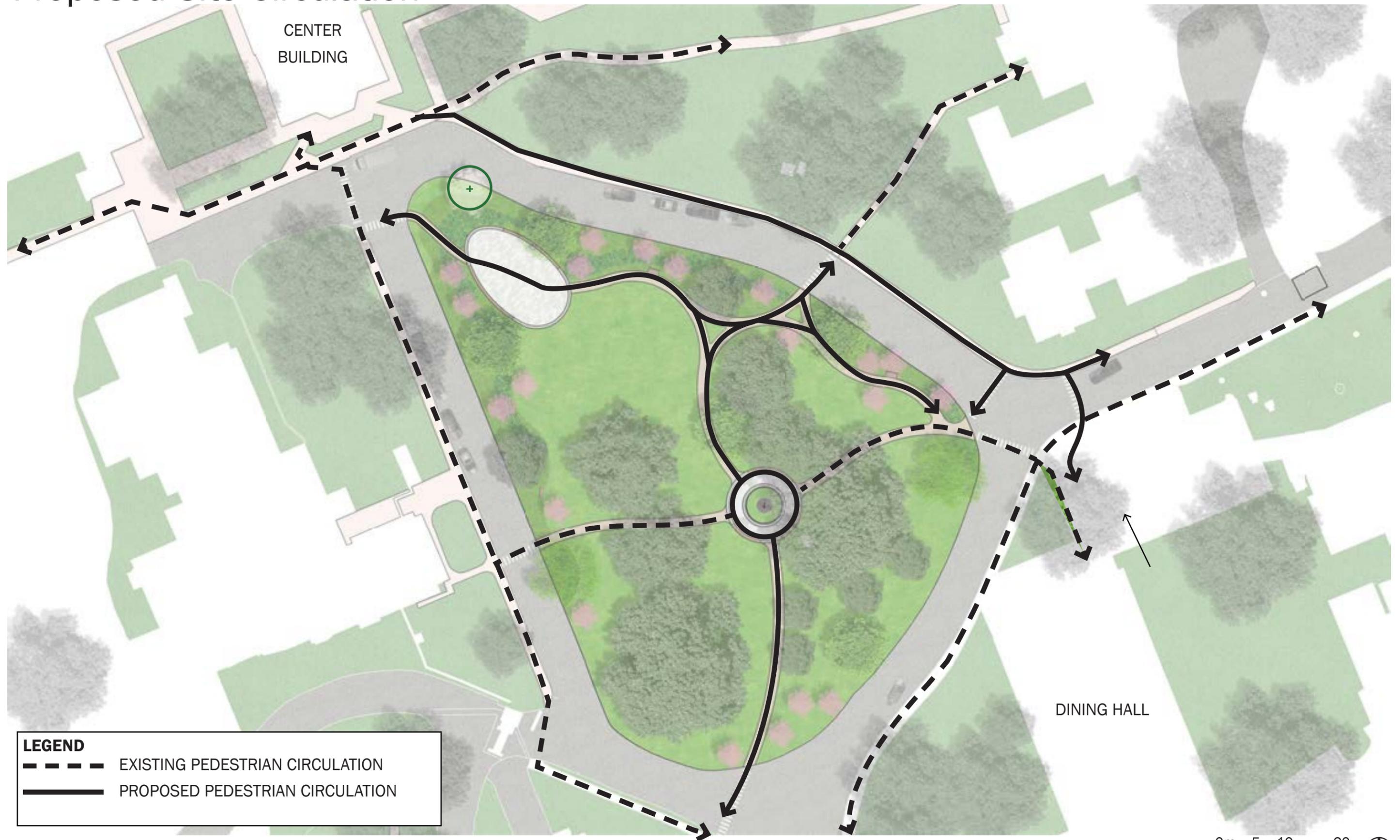
DINING HALL



# Proposed Site Plan: Event Diagram



# Proposed Site Circulation



**LEGEND**  
- - - - - EXISTING PEDESTRIAN CIRCULATION  
————— PROPOSED PEDESTRIAN CIRCULATION



# Proposed External Views



# Proposed Internal Views



# Proposed Signage



# Proposed Site Paving



Exposed Aggregate Concrete Paving



Granite Curb



Granite Paving



EXPOSED AGGREGATE  
CIP CONCRETE PAVING

EXPOSED AGGREGATE  
CIP CONCRETE PAVING

# Proposed Site Furnishings



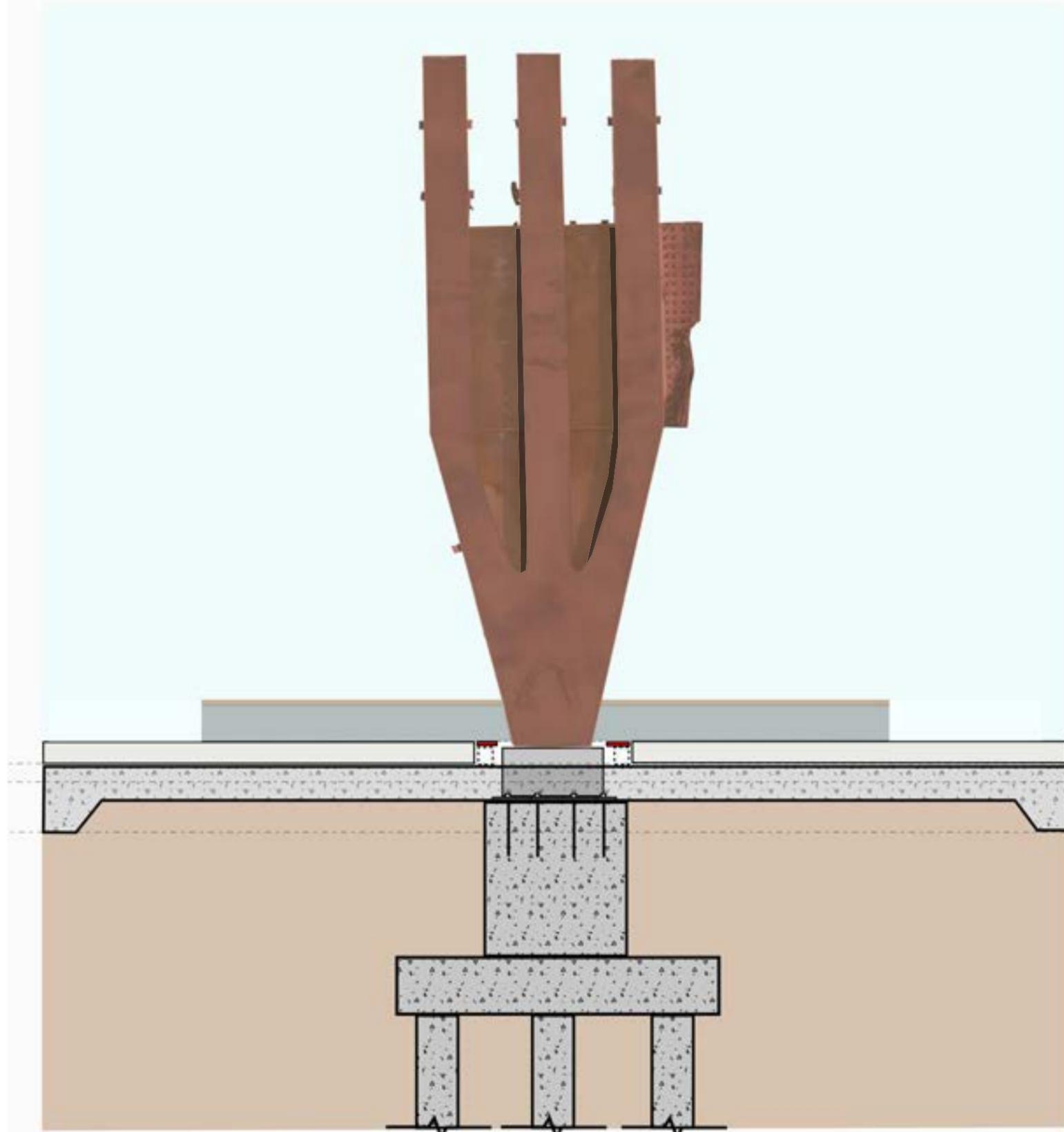
Bench (Landscape Forms 'Neoliviano')



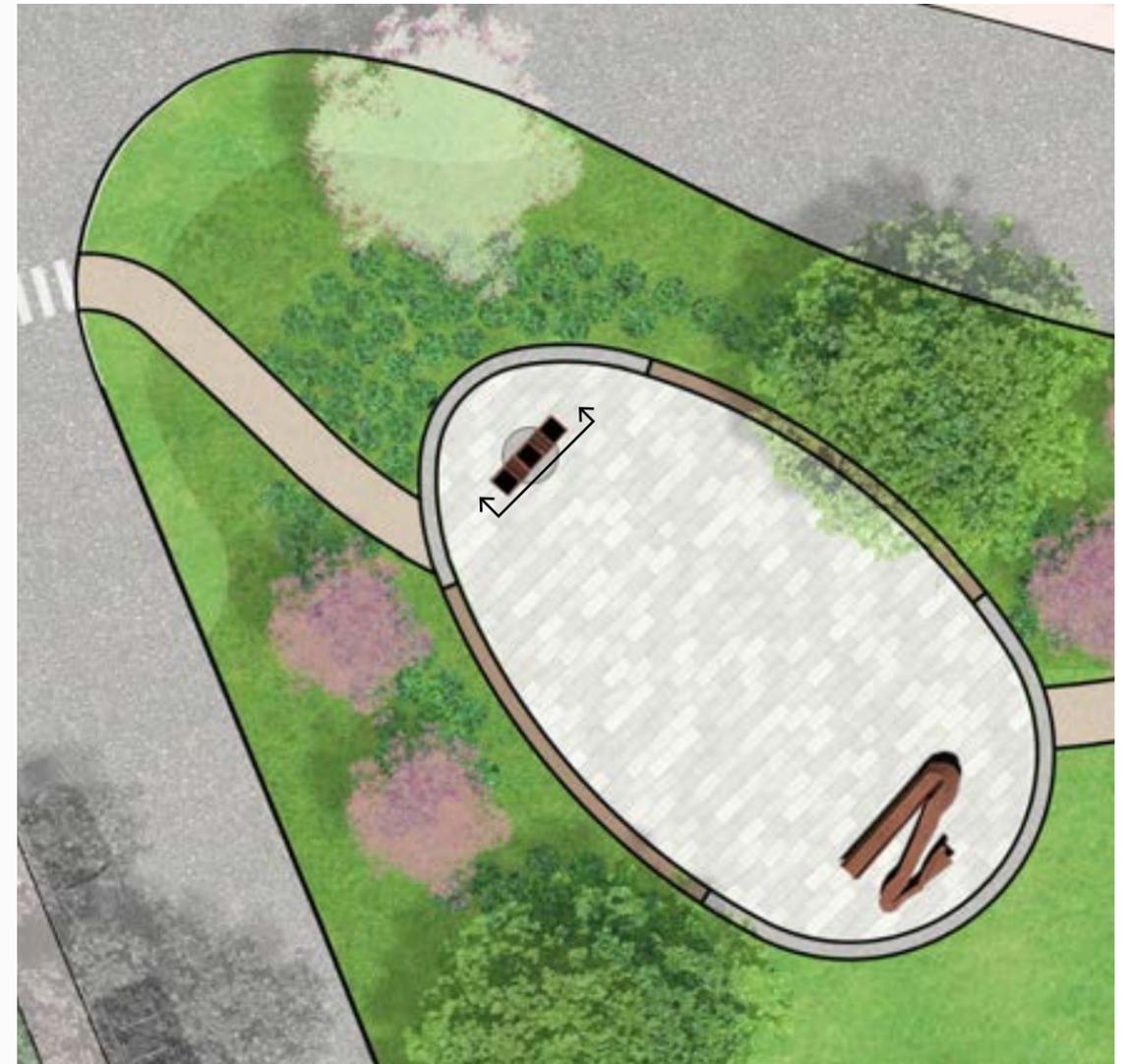
Bench - Granite Top and Base



# Trident Installation



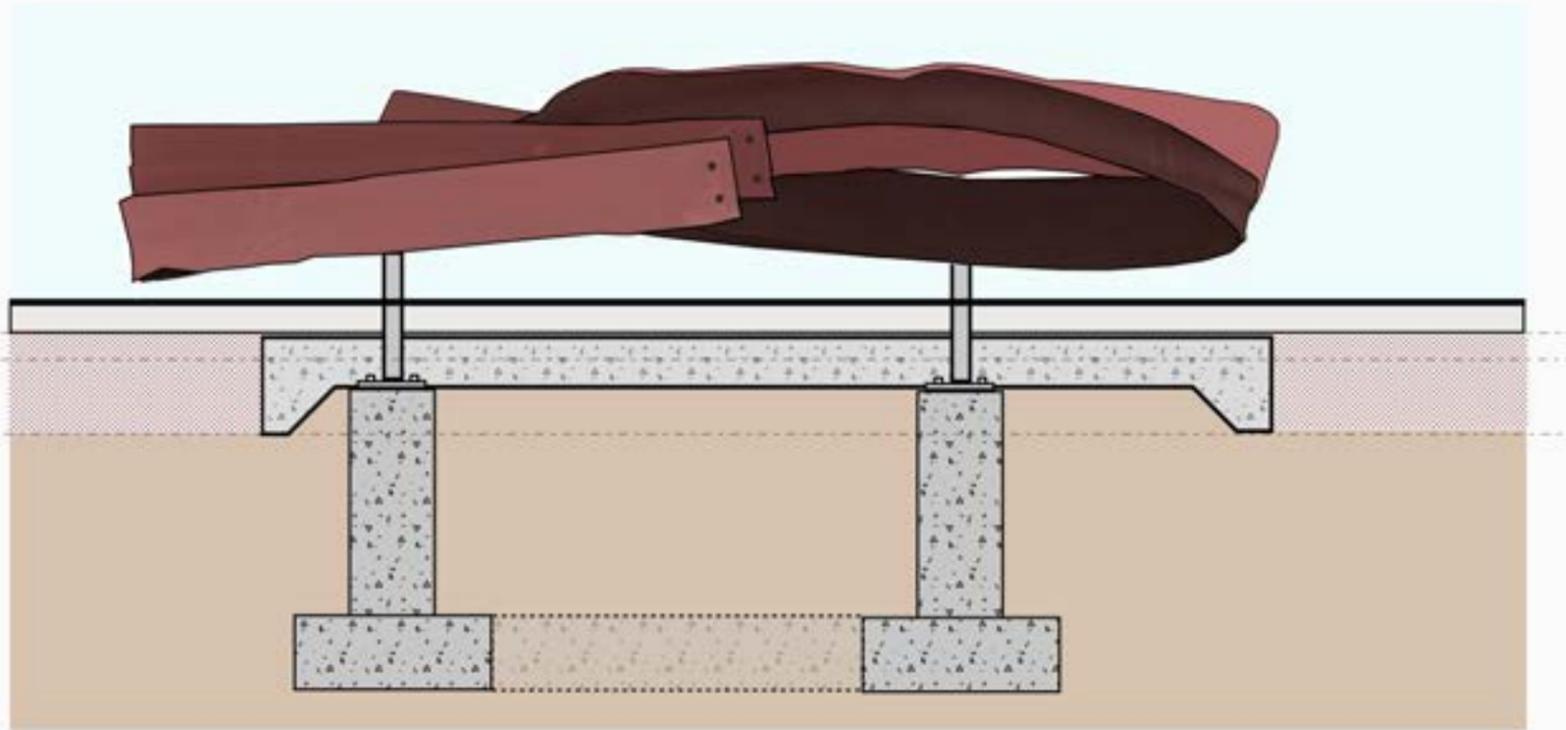
SECTION DETAIL - WTC STEEL ARTIFACT (E-0017) SST DRAINAGE GRATING W/ INTEGRATED LIGHTING - 316 SST STRUCTURAL SUPPORT FITTINGS



KEY PLAN - WTC STEEL ARTIFACTS



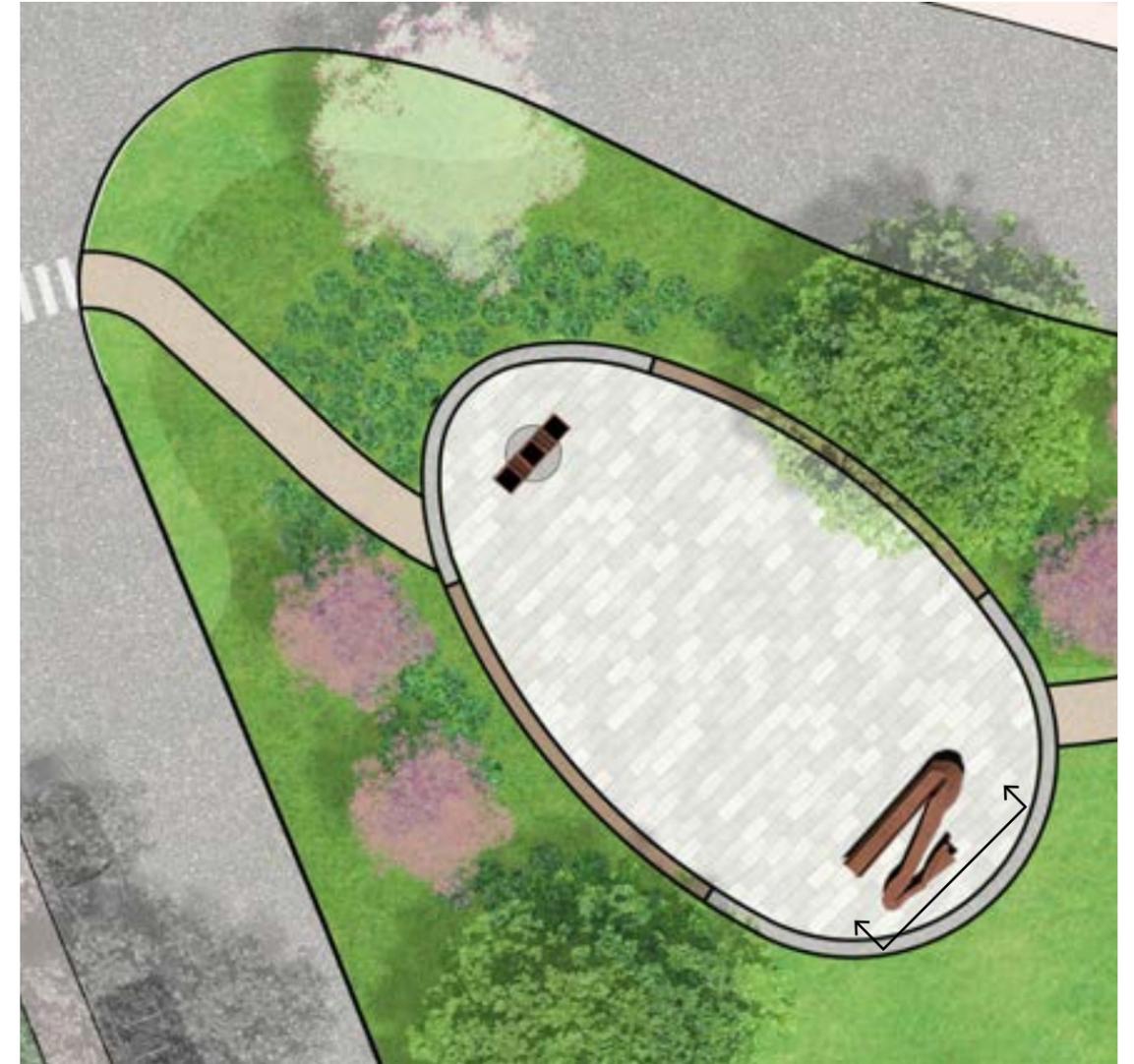
# "N" Artifact Installation



SECTION DETAIL - WTC STEEL ARTIFACT (C-60)  
PLAZA STONE TILE W/ INTEGRATED LIGHTING - 316 SST STRUCTURAL SUPPORT FITTINGS

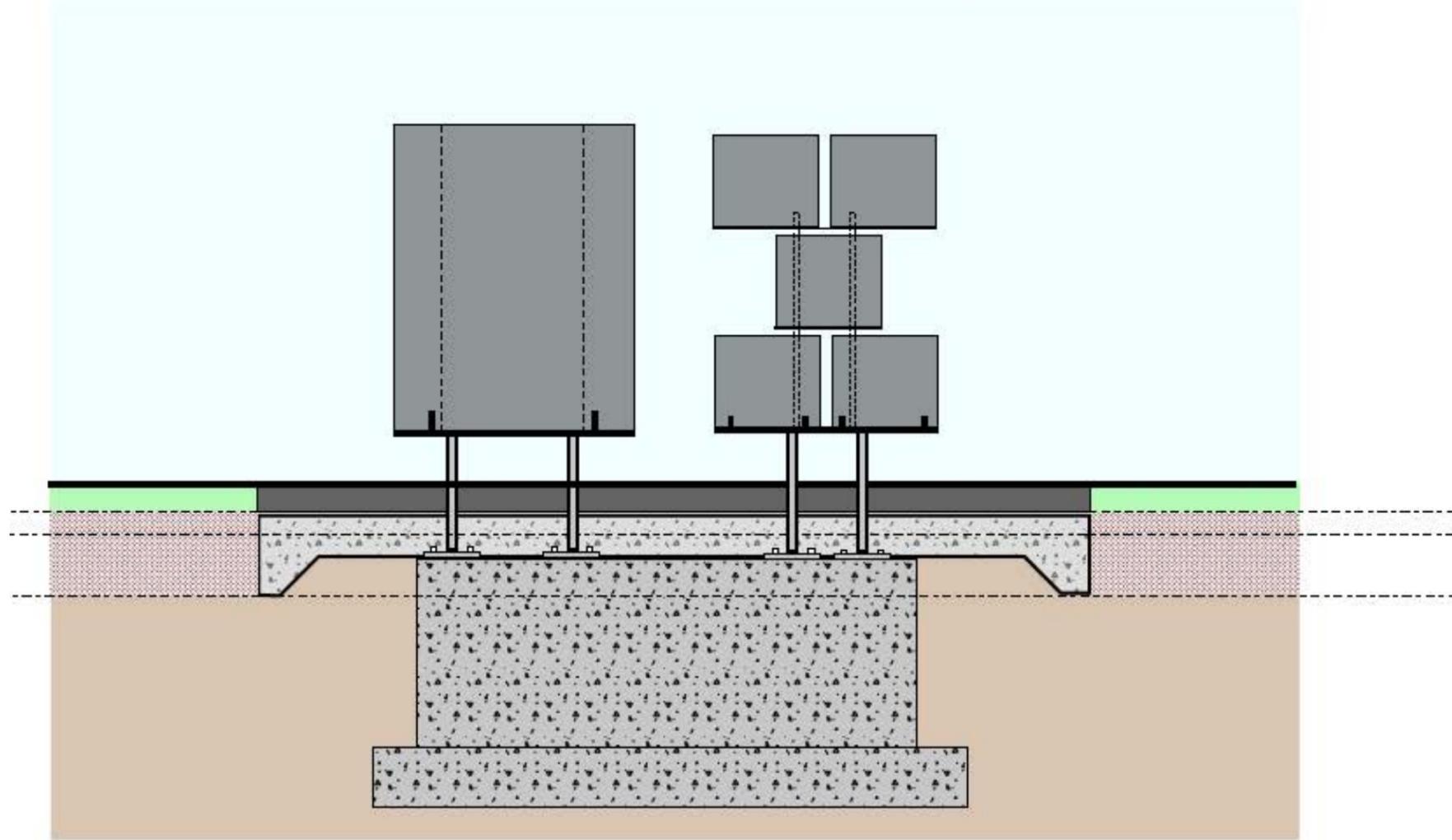


PLAN DETAIL - WTC STEEL ARTIFACT (C-60)  
PLAZA STONE TILE W/ INTEGRATED LIGHTING

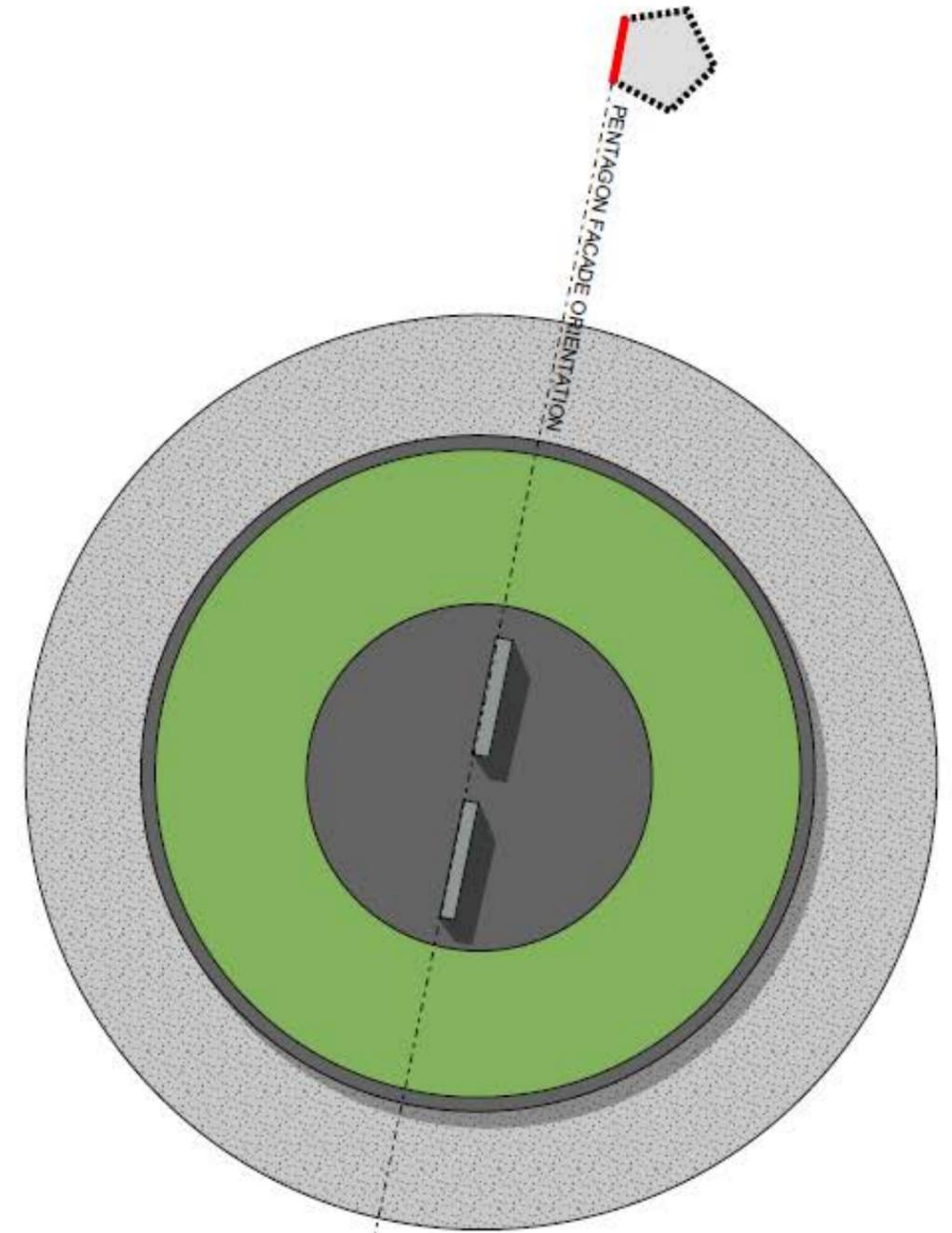


KEY PLAN - WTC STEEL ARTIFACTS

# Pentagon Stones Installation

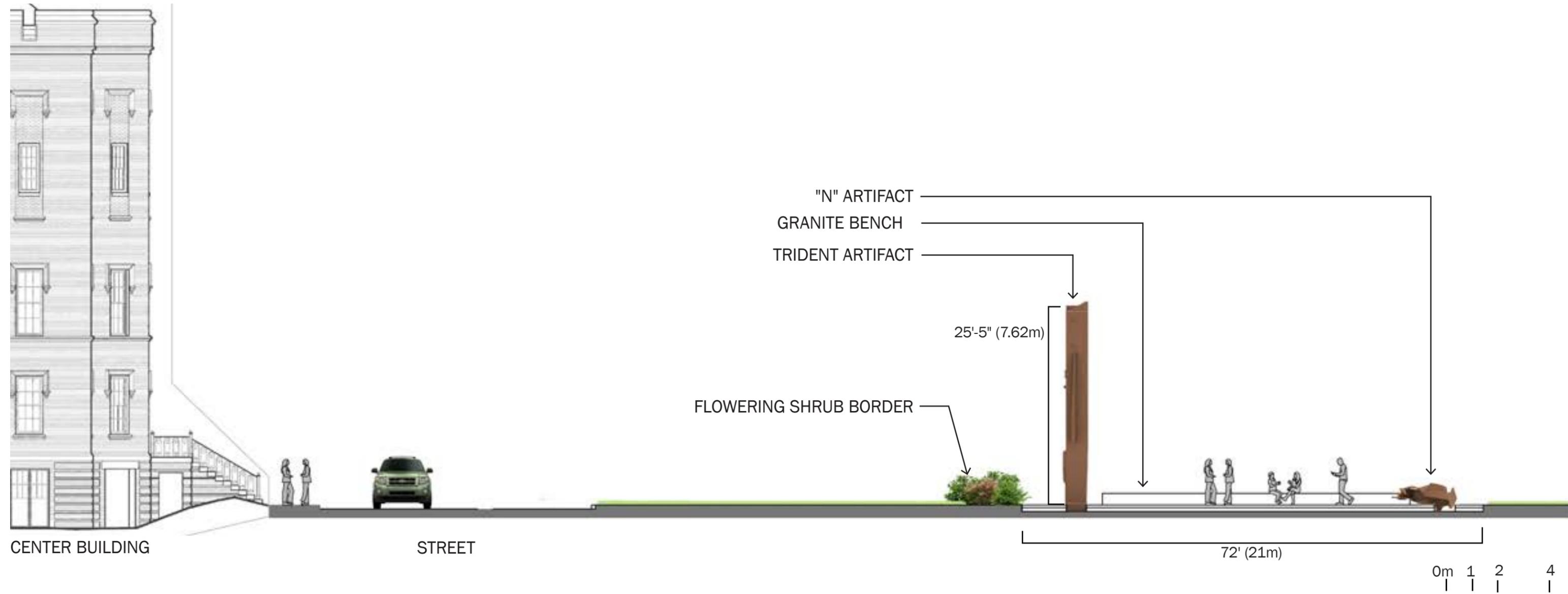


PLAN DETAIL - PENTAGON STONE CLADDING ARTIFACTS (6 TOTAL)  
STONE PLINTH W/ INTEGRATED LIGHTING - 316 SST STRUCTURAL SUPPORT FITTINGS



SECTION DETAIL - PENTAGON STONE CLADDING ARTIFACTS (6 TOTAL)  
STONE PLINTH W/ INTEGRATED LIGHTING - 316 SST STRUCTURAL SUPPORT FITTINGS

# Resilience Plaza Section



# PLANTING APPROACH

# P100 Planting Requirements - Summary

<p>"Identify, preserve and reuse plant communities and special status vegetation native to the eco-region of the site to contribute to regional diversity of flora and provide habitat for wildlife."</p>
<p>"Use vegetation to minimize building climate control requirements"</p>
<p>"Design rainwater/stormwater features into the site to provide a landscape amenity."</p>
<p>"Maintain or repurpose on-site structures and construction materials to extend life cycle of existing building materials and reduce waste."</p>
<p>"Plant a minimum of 9 different plant species for each viable blooming season. Design to a mandatory 50% target of pollinator-positive plant material. ... All plants shall be adapted to the site's eco-region."</p>
<p>"General and specific signage shall be provided on the site that identifies the pollinating-positive environment..."</p>

PROJECT GOALS INCLUDE ACHIEVEMENT OF P100 GUIDELINES BY USING A DIVERSE SELECTION OF NATIVE PLANTS THAT WILL ENCOURAGE HABITAT FOR BOTH BIRDS AND POLLINATORS.

# NCPC Planting Requirements - Section G: Tree Canopy & Vegetation

FE.G.1 "Trees 31.8 in dia (100in in circumference) or greater may not be removed, unless: Removal is critical to accomplishing the mission of the agency and planning/design alternatives that would preserve such trees have been explored and determined incapable of accommodating program requirements or the tree is considered invasive or hazardous per an Arborist's evaluation."
"Trees less than 10-in in dia: Replace one tree for every one tree removed."
"Trees 10-in in dia. or greater: Tree Diameter (in inches) x Species Rating (as percentage) x Condition Rating (as percentage) = Score. "
"Forests and Stands of Trees: Plant 1.5 acres for every 1 acre removed. Consult with federal and local stakeholders to determine the appropriate density, mixture, and size of replacement plantings."

Tree ID	Common Name	Genus	Species	DBH	Height Class
217	Magnolia-Southern	<i>Magnolia</i>	<i>grandiflora</i>	13,8	Medium
218	Magnolia-Southern	<i>Magnolia</i>	<i>grandiflora</i>	13,9,7	Medium
219	Holly-American	<i>Ilex</i>	<i>opaca</i>	25	Medium
220	Holly-American	<i>Ilex</i>	<i>opaca</i>	17	Medium
221	Holly-American	<i>Ilex</i>	<i>opaca</i>	13	Medium
222	Holly-American	<i>Ilex</i>	<i>opaca</i>	19	Medium
223	Zelkova-Japanese	<i>Zelkova</i>	<i>serrata</i>	32	Large
224	Zelkova-Japanese	<i>Zelkova</i>	<i>serrata</i>	31	Large
226	Magnolia-Southern	<i>Magnolia</i>	<i>grandiflora</i>	29	Large
227	Magnolia-Southern	<i>Magnolia</i>	<i>grandiflora</i>	30	Large
228	Holly-American	<i>Ilex</i>	<i>opaca</i>	25	Large
229	Common Baldcypress	<i>Taxodium</i>	<i>distichum</i>	17	Large
230	Oak-Willow	<i>Quercus</i>	<i>phellos</i>	17	Large
231	Oak-Willow	<i>Quercus</i>	<i>phellos</i>	61	Large
237	Oak-Willow	<i>Quercus</i>	<i>phellos</i>	58	Large
241	Oak-Sawtooth	<i>Quercus</i>	<i>acutissima</i>	31	Large
901	Common Baldcypress	<i>Taxodium</i>	<i>distichum</i>	3	Small
902	Cherry-Flowering	<i>Prunus</i>	<i>serrulata</i>	4	Small
903	Cherry-Flowering	<i>Prunus</i>	<i>serrulata</i>	4	Small
904	Cherry-Flowering	<i>Prunus</i>	<i>serrulata</i>	4	Small
905	Cherry-Flowering	<i>Prunus</i>	<i>serrulata</i>	4	Small
906	Cherry-Flowering	<i>Prunus</i>	<i>serrulata</i>	3	Small

11 TREES TO BE REMOVED

ST ELIZABETHS TREE INVENTORY - BARTLETT, 2021

27 TREES TO BE ADDED

(25 REQ'D TO BE REPLACED PER NCPC)

PROJECT GOALS INCLUDE RETENTION OF AS MANY MATURE TREES AS POSSIBLE. TREES TO BE REMOVED TO INSTALL THE PROPOSED DESIGN WILL BE REPLACED PER NCPC REQUIREMENTS.

# Planting Strategy - Proposed Trees



CENTER BUILDING

SURVIVOR TREE (PYRUS CALLERYANA)



**PYRUS CALLERYANA**  
CALLERY PEAR  
30-50 FT HT, 20-35 FT SPREAD  
SPRING INTEREST

(2) LIQUIDAMBAR ROTUNDILOBA



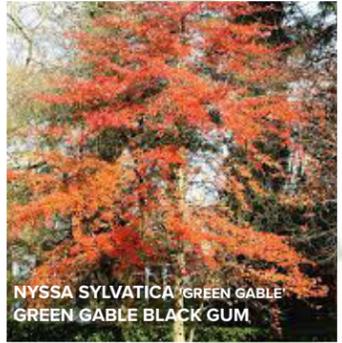
**LIQUIDAMBAR ROTUNDILOBA**  
FRUITLESS SWEETGUM  
60-75 FT HT, 20-40 FT SPREAD  
FALL INTEREST

(3) ACER RUBRUM 'OCTOBER GLORY'



**ACER RUBRUM 'OCTOBER GLORY'**  
OCTOBER GLORY RED MAPLE  
20-120 FT HT, 30-50 FT SPREAD  
BLOOM - SPRING, WINTER  
FALL INTEREST  
ATTRACTS - BEES, BIRDS, BUTTERFLIES

(2) NYSSA SYLVATICA



**NYSSA SYLVATICA 'GREEN GABLE'**  
GREEN GABLE BLACK GUM  
50-80 FT HT, 20-30 FT SPREAD  
BLOOM - SPRING  
FALL INTEREST  
ATTRACTS - BEES, SONG BIRDS

(20) CORNUS FLORIDA 'CHEROKEE CHIEF'



**CORNUS FLORIDA 'CHEROKEE CHIEF'**  
CHEROKEE CHIEF DOGWOOD  
20 FT HT, 20 FT SPREAD  
BLOOM - SPRING  
FALL INTEREST  
ATTRACTS - BEES, BIRDS

DINING HALL



# Planting Strategy - Shrubs, Groundcovers, and Perennials



# Planting Palette - Flowering Shrubs



**ARONIA ARBUTIFOLIA 'AUTUMN MAGIC'**  
**AUTUMN MAGIC CHOKEBERRY**

DECIDUOUS SHRUB  
3-6 FT HT, 4-7 FT SPREAD  
BLOOM - MAY  
FALL INTEREST  
ATTRACTS - POLLINATORS, BIRDS



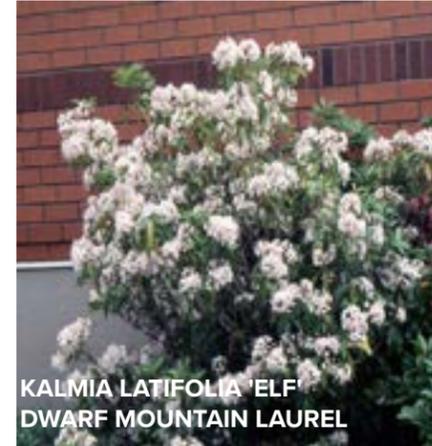
**ABELIA X GRANDIFLORA 'KALEIDOSCOPE'**  
**KALEIDOSCOPE ABELIA**

EVERGREEN SHRUB  
2-3 FT HT, 2-3 FT SPREAD  
BLOOM - MAY-SEPTEMBER  
FALL INTEREST  
ATTRACTS - BEES



**FOTHERGILLA GARDENII**  
**DWARF FOTHERGILLA**

DECIDUOUS SHRUB  
2-3 FT HT, 3-4 FT SPREAD  
BLOOM - SPRING  
FALL INTEREST  
ATTRACTS - BEES, BUTTERFLIES



**KALMIA LATIFOLIA 'ELF'**  
**DWARF MOUNTAIN LAUREL**

EVERGREEN SHRUB  
3-4 FT HT, 3-4 FT SPREAD  
BLOOM - SPRING-EARLY SUMMER  
ATTRACTS - BEES, BUTTERFLIES



**LEUCOTHOE AXILLARIS**  
**COASTAL DOGHOBBLE**

EVERGREEN SHRUB  
2-4 FT HT,  
BLOOM - APRIL, MAY  
ATTRACTS - BEES



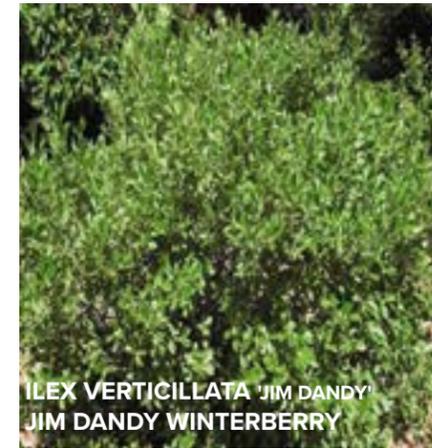
**PRUNUS LAUROCERASUS 'OTTO LUYKEN'**  
**OTTO LUYKEN CHERRYLAUREL**

EVERGREEN SHRUB  
3-4 FT HT, 6-8 FT SPREAD



**ILEX VERTICILLATA 'RED SPRITE'**  
**RED SPRITE WINTERBERRY**

DECIDUOUS SHRUB  
6-10 FT HT, 6-10 FT SPREAD

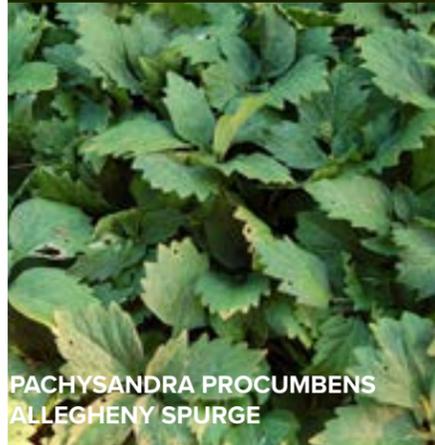


**ILEX VERTICILLATA 'JIM DANDY'**  
**JIM DANDY WINTERBERRY**

DECIDUOUS SHRUB  
6-10 FT HT, 6-10 FT SPREAD  
MALE POLLINATOR FOR RED SPRITE

# Planting Palette - Groundcover & Perennials

## PART SHADE - SHADE



**PACHYSANDRA PROCUMBENS**  
**ALLEGHENY SPURGE**

SEMI-EVERGREEN GROUNDCOVER  
6-10 IN HT, 1-2 FT SPREAD



**DRYOPTERIS AUSTRALIS**  
**WOOD FERN**

FERN  
4-5 FT HT, 2-3 FT SPREAD



**CAREX APPALACHICA**  
**APPALACHIAN SEDGE**

SEDGE  
1 FT HT, 1-1.5 FT SPREAD



**ANEMONE 'HONORINE JOBERT'**  
**HONORINE JOBERT ANEMONE**

HERBACEOUS PERENNIAL  
2-4 FT HT, 1.5-2 FT SPREAD  
BLOOM - JULY-AUGUST  
WILDLIFE - BEES

## SUN



**COREOPSIS VERTICILLATA 'ALBA'**  
**ALBA THREADLEAF COREOPSIS**

HERBACEOUS PERENNIAL  
1-3 FT HT  
BLOOM - JUNE-JULY  
WILDLIFE - BUTTERFLIES, BIRDS



**MONARDA FISTULOSA 'SNOW WHITE'**  
**SNOW WHITE BEE BALM**

HERBACEOUS PERENNIAL  
2-4 FT HT, 2-4 FT SPREAD  
BLOOM - MAY-SEPTEMBER  
WILDLIFE - BEES, BUTTERFLIES,  
HUMMINGBIRDS

## SUN



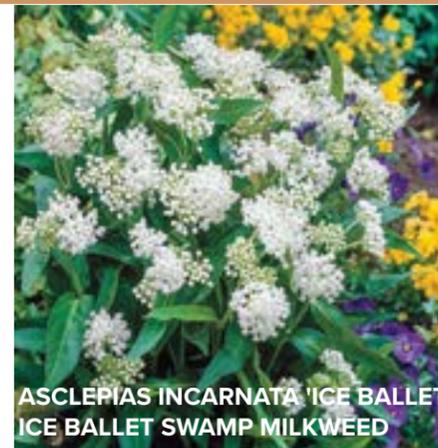
**PHLOX PANICULATA 'DAVID'**  
**DAVID PHLOX**

HERBACEOUS PERENNIAL  
3-4 FT HT, 2-3 FT SPREAD  
BLOOM - JUNE-JULY  
WILDLIFE - BEES, BUTTERFLIES



**ECHINACEA PURPUREA 'WHITE SWAN'**  
**WHITE SWAN CONEFLOWER**

HERBACEOUS PERENNIAL  
2-3 FT HT, 1-2 FT SPREAD  
BLOOM - APRIL-SEPTEMBER  
WILDLIFE - BEES, BUTTERFLIES



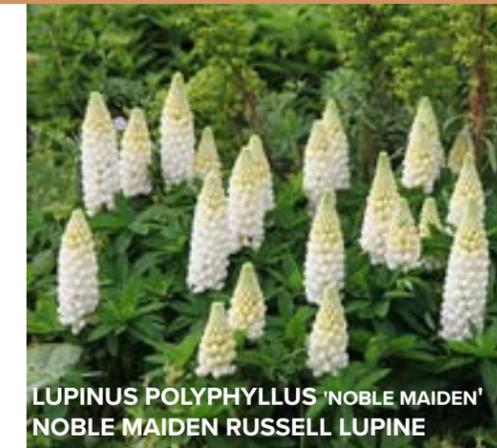
**ASCLEPIAS INCARNATA 'ICE BALLET'**  
**ICE BALLET SWAMP MILKWEED**

HERBACEOUS PERENNIAL  
3-4 FT HT, 1.5-2 FT SPREAD  
BLOOM - JUNE-SEPTEMBER  
WILDLIFE - BEES



**SYMPHYOTRICHUM NOVAE-ANGLIAE**  
**'AUTUMN SNOW'**  
**AUTUMN SNOW NEW ENGLAND ASTER**

HERBACEOUS PERENNIAL  
3-4 FT HT, 2-3 FT SPREAD  
BLOOM - AUGUST-OCTOBER  
WILDLIFE - BEES, BUTTERFLIES



**LUPINUS POLYPHYLLUS 'NOBLE MAIDEN'**  
**NOBLE MAIDEN RUSSELL LUPINE**

HERBACEOUS PERENNIAL  
3-4 FT HT, 1-2 FT SPREAD  
BLOOM - JUNE-AUGUST  
WILDLIFE - BEES, BUTTERFLIES,  
HUMMINGBIRDS



**POLIANTHES TUBEROSA**  
**TUBEROSE**

HERBACEOUS PERENNIAL  
2-4 FT HT, 1-2 FT SPREAD  
BLOOM - JUNE-AUGUST  
WILDLIFE - BEES, BUTTERFLIES,  
HUMMINGBIRDS

# Planting Palette - Bloom Schedule

Bloom Schedule		December	January	February	March	April	May	June	July	August	September	October	November
<b>Trees and Shrubs</b>													
Cornus florida 'Cherokee Chief'	Flowering Dogwood												
Aronia arbutifolia 'Autumn Magic'	black chokeberry												
Kalmia latifolia 'Elf'	Dwarf Mountain Laurel												
Prunus laurocerasus 'Otto Luyken'	Cherry Laurel												
Abelia × grandiflora 'Kaleidoscope'	Kaleidoscope Abelia												
Leucothoe axillaris	Coastal Doghobble												
Fothergilla gardenii	Dwarf Fothergilla												
<b>Groundcover &amp; Perennials</b>													
Anemone 'Honorine Jobert'	Honorine Jobert Anemone												
Asclepias incarnata 'Ice Ballet'	Ice Ballet Swamp Milkweed												
Echinacea purpurea 'White Swan'	White Swan Coneflower												
Polianthes tuberosa	Tuberose												
Symphotrichum novae-angliae 'Autumn Snow'	Autumn Snow New England Aster												
Coreopsis verticillata 'Alba'	Alba Threadleaf Coreopsis												
Lupinus polyphyllus 'Noble Maiden'	Noble Maiden Russell Lupine												
Monarda fistulosa 'Snow White'	Snow White Bee Balm												
Phlox paniculata 'David'	David Phlox												

INCLUSION OF A DIVERSITY OF PLANT SPECIES IN THE PLANTING DESIGN PROVIDES TEXTURE, SEASONAL INTEREST THROUGHOUT THE YEAR AND FOOD FOR FAUNA AND POLLINATORS.

# SITE VIEWS

# View from the South



# View from the South



# View From Center Building



# Pentagon Stones

